## **EAST Search History**

## **EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"20080146016"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S2	4	("4457861" or "5653918" or "6312864" or "6322620").pn. or "2001029977"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S3	2	WO-9324934-A\$	EPO; JPO; DERWENT	ADJ	ON	2009/09/10 14:06
S4	4	WO-9324934-A\$ or JP- 63268773-A\$	EPO; JPO; DERWENT	ADJ	ON	2009/09/10 14:06
\$5	1713	((shading or shaded or shade) with (reduc\$4 or minimiz\$5 or diminish\$4 or decreas \$4 or lessen\$4 or lower \$4 or degrad\$5 or curtail\$4 or cut\$3 adj (down or back) or little or minor or dash or small or tiny)) and ((screen or roller or tampon) printing or spraying or (finger writing))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S6	7	EP-0705479-A\$ OR EP- 1207726-A\$ OR JP- 11144619-A\$ OR US- 6120975-A\$ OR US- 2001029977-A\$ OR US- 5653918-A\$ OR US- 4429657-A\$ OR US- 4421944-A\$ OR US- 4327124-A\$	EPO; JPO; DERWENT	ADJ	ON	2009/09/10 14:06
S7	343	S5 and (((dimethyl ester) or (butyl ester) or (butyl ester) or alcohols or water or ethanol or propanol or butanol or acetone or turpentine or benzene or benzine) with (hard or harden\$3 or solidif \$4 or solid))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06

S8	460	S5 and paste	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S9	152	S8 and S7	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S10	24	(ingo near schwirtlich). in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S11	2	WO-2005088730-A\$	EPO; JPO; DERWENT	ADJ	ON	2009/09/10 14:06
S12	12	(Hilmar near2 Campe). in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S13	356	(((sometimes or often or also or frequently or commonly or once or typically or usually or regularly or generally or better) near1 (call \$3 or refer\$4 or known or dubbed)) or (synonymous or synonym or ((equivalent or similar or alternat\$3) near2 (word or concept or term)))) near10 (solar cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S14	31991	solar cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S15	155	S5 and (solar cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S16	10592	H01B1/20.I PCR. OR H01B1/20.CI PG. OR H01B1/20.CI PC. OR H01B1/22.I PCR. OR H01B1/22.CI PG. H01B1/22.CI PC. OR H01B1/24.I PCR. OR H01B1/24.CI PG. OR H01B1/24.I PCR.	EPO; JPO; DERWENT	ADJ	ON	2009/09/10 14:06
S17	6804	(252/503,512-514.ccls. or 524/506.ccls.) or (252/506,509-511. ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S18	1	S5 and S17	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S19	1373	S17 and ((screen or roller or tampon) printing or spraying or (finger writing))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06

S20	139	S17 and solar cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S21	183	S16 and solar cell	EPO; JPO; DERWENT	ADJ	ON	2009/09/10 14:06
<b>S</b> 22	703	S17 and (((dimethylester) or (butylester) or (butylester) or alcohols or water or ethanol or propanol or butanol or acetone or turpentine or benzene or benzine) with (hard or harden\$3 or solidif \$4 or solid))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S23	8	S21 and (harden\$3 or solidif\$4)	EPO; JPO; DERWENT	ADJ	ON	2009/09/10 14:06
S24	784	S16 and (harden\$3 or solidif\$4)	EPO; JPO; DERWENT	ADJ	ON	2009/09/10 14:06
S25	302	S22 and (silicon)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S26	121	S25 and (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
<b>S</b> 27	108	S17 and (((dimethylester) or (butylester) or (butylester) or alcohols or water or ethanol or propanol or butanol or acetone or turpentine or benzene or benzine) with (harden\$3 or solidif \$4))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S28	57	S27 and (silicon)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S29	73	S19 and S20	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
\$30	3	S17 and ((shading or shaded or shade) with (reduc\$4 or minimiz\$5 or diminish\$4 or decreas\$4 or lessen\$4 or lower\$4 or degrad \$5 or curtail\$4 or cut \$3 adj (down or back) or little or minor or dash or small or tiny))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S31	1	"20030124259"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06

S32	41	\$27 and (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S33	6804	(252/503,512-514.ccls. or 524/506.ccls.) or (252/506,509-511. ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S34	250	S33 and ((Si O) or SiO or SiO2 or SiO\$1 sub \$1"2" or (Si O\$1 sub \$1"2") or SiON or (SiO N) or (Si"3"\$1N4) or (Si3 N4) or (Si\$1 sub \$1"3" adj N\$1 sub \$1"4") or (Si\$1 sub \$1"4") or (Si\$1 sub \$1"4") or (Si\$1 sub \$1"4") or silicon (nitride or oxide or dioxide)) and (surfactant or soap or alcohol sulfate or alkyl benzene sulfonate or non carbonic acid ester or polyalcohol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10
<b>S</b> 35	224	\$34 and ((dimethylester) or (butylester) or ester) or water or ethanol or propanol or butanol or acetone or turpentine or benzene or benzine)	US-PGPUB; USPAT; USOCR	ADJ	0N	2009/09/10 14:06
S36	243	S34 and (harden\$3 or solidif\$3 or heating or curing or cured or cure or cures or dried or drying or dry or dries or extract\$4 or deeping or deeped or immersing or immersed)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S37	217	S35 and S36	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S38	21	S37 and solar cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S39	1768	\$33 and (layer or substrate or film or wafer).clm.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06

S40	352	S33 and ((layer or substrate or film or wafer) near3 (silicon or Si or a\$1Si))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S41	54	S40 and S35	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S42	56	S40 and S36	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S43	53	S41 and S42	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S44	98	S39 and S37	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S45	33	S43 and S44	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S46	40	S33 and S37 and (silicon near2 (substrate or layer or board or film))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S47	1	"20020049274"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S48	54	S33 and S37 and (silicon near6 (substrate or layer or board or film))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S49	6	S37 and ((height or length) near4 ratio)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S50	53	S44 and (printing)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S51	21	S50 and alumina	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S52	62	S37 and (water near2 (soluble or insoluble))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S53	15	S37 and (water near2 (soluble and insoluble))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S54	6804	(252/503,512-514.ccls. or 524/506.ccls.) or (252/506,509-511. ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S55	1768	S54 and (layer or substrate or film or wafer).clm.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S56	1	S55 and (Schwirtlich or Ingo or Von or Campe or Hilmar).in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06

S57	0	S55 and ((rwe or schott or (solar gmbh)).as. or ("1727" near King st))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S58	35	(US-20060043346-\$ or	US-PGPUB; USPAT; DERWENT	mADJ	OO	2009/09/10
S59	5	S58 and solar cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06

S60	250	S54 and ((Si O) or SiO or SiO2 or SiO\$1sub \$1"2" or (Si O\$1sub \$1"2") or SiON or (SiO N) or (Si"3"\$1N4) or (Si3 N4) or (Si\$1sub \$1"3" adj N\$1sub \$1"4") or (Si\$1sub \$1"3"N\$1sub\$1"4") or silicon (nitride or oxide or dioxide)) and (surfactant or soap or alcohol sulfate or alkyl benzene sulfonate or non carbonic acid ester or polyalcohol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S61	224	S60 and ((dimethyl ester) or (butyl ester) or (butyl ester) or alcohol or water or ethanol or propanol or butanol or acetone or turpentine or benzene or benzine)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S62	243	S60 and (harden\$3 or solidif\$3 or heating or curing or cured or cure or cures or dried or drying or dry or dries or extract\$4 or deeping or deeped or immersing or immersed)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S63	217	S61 and S62	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S64	21	S63 and solar cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S65	70	(carbon near6 (concentration or atom \$1cm\$1sup\$12 or dos \$3) near6 (boron or phophor\$3 or arsenic)). clm.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S66	70	(carbon near6 (concentration or atom \$1cm\$1sup\$1"2" or dos\$3) near6 (boron or phophor\$3 or arsenic)).clm.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06

<b>S</b> 67	25	(carbon near6 (concentration or atom \$1cm\$1sup\$1"2" or dos\$3) near6 (boron or phophor\$3 or arsenic)).clm. and (implant\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S68		(US-20090008650-\$ or US-20080242032-\$ or US-20080237716-\$ or US-20080203434-\$ or US-20070256627-\$ or US-2007012242-\$ or US-20070012242-\$ or US-20030201461-\$ or US-20030201461-\$ or US-20030175532-\$ or US-20020142171-\$ or US-20020142171-\$ or US-20020142170-\$). did. or (US-7119382-\$ or US-6703294-\$ or US-6641888-\$ or US-6635950-\$ or US-6198157-\$ or US-6180269-\$ or US-5246736-\$ or US-5246736-\$ or US-5189504-\$ or US-4855197-\$).did.	US-PGPUB; USPAT	**************************************	ON	2009/09/10
<b>S</b> 69	24	,	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S70	6804	(252/503,512-514.ccls. or 524/506.ccls.) or (252/506,509-511. ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S71	50	S70 and solar cell and (silicon near2 (substrate or wafer or film))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S72	38	S70 and solar cell and (silicon near2 (substrate or wafer or film)) and (silicon dioxide or SiO2 or SiO2 or "SiO.sub.2" or Si"O.sub.2")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06

S73	10	S70 and solar cell and (silicon near2 (substrate or wafer or film)) same (silicon dioxide or SiO2 or SiO2 or "SiO.sub.2" or Si"O.sub.2")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S74	66	S70 and solar cell with (semiconductor or silicon)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 14:06
S75	75	(US-20090133741-\$ or US-20080214716-\$ or US-20080053835-\$ or US-20080020127-\$ or US-20080017076-\$ or US-20070248571-\$ or US-20070202342-\$ or US-20070191539-\$ or US-20060211805-\$ or US-20040181011-\$ or US-20040181011-\$ or US-20040166316-\$ or US-20040059037-\$ or US-20040059037-\$ or US-20030027915-\$ or US-20030027915-\$ or US-20030027915-\$ or US-20030021903-\$ or US-20030021903-\$ or US-20030021903-\$ or US-20030021903-\$ or US-20030021903-\$ or US-20010018095-\$). did. or (US-7273899-\$ or US-7037385-\$ or US-7037385-\$ or US-7037385-\$ or US-6900265-\$ or US-6900265-\$ or US-6900265-\$ or US-631202-\$ or US-631202-\$ or US-6322851-\$ or US-6322851-\$ or US-6322851-\$ or US-6322851-\$ or US-6322851-\$ or US-6312820-\$ or US-6224947-\$ or US-6224947-\$ or US-6201048-\$ or US-6103793-\$ or US-6103793-	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10

S76 75	5066732-\$ or US- 4946910-\$ or US- 4794147-\$ or US- 4631226-\$ or US- 4495226-\$ or US- 4423108-\$ or US- 3873486-\$ or US- 3720562-\$).did. or (US-3733293-\$ or US- 3532659-\$ or US- 3304278-\$).did. (paste or polymer)	US-PGPUB; USPAT; USOCR		2009/09/10
	5998543-\$ or US-5998543-\$ or US-5990224-\$).did. or (US-5977250-\$ or US-5912297-\$ or US-5679399-\$ or US-5667845-\$ or US-5629374-\$ or US-5431847-\$ or US-5427863-\$ or US-5352726-\$ or US-5294664-\$ or US-5294664-\$ or US-5236995-\$ or US-5126146-\$ or US-5126146			

S77	1	(paste or polymer) near15 foam near10 (harden\$4 or extract \$3 or stabili\$4) and \$75	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 17:42
S78	268	(paste or polymer) near15 foam near10 (harden\$4 or extract \$3 or stabili\$4) and ((water or H2O or H2 O or (H\$1sub\$1"2"O) or (H\$1sub\$1"2"O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or hydroxilic) acid) near6 (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol) with foam)	US-PGPUB; USPAT; USOCR	ADJ	0 0 0	2009/09/10
S79	36	S78 and (conductivity or resistance) and ((screen or roller or tampon) print\$3 or spraying or (finger writ \$3))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/10 17:45
S80	48	Resin SAME (surfactant or soap or (alcohol sulfate) or (alkyl benzene) or sulfonate or (non \$1carbonic acid ester) or polyalcohol) SAME (conductive paste)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/11 13:19
S81	2	"7059512"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/11 15:02

S82	114	((harden\$4 or extract	US-PGPUB;	ADJ	ON	2009/09/14
		\$3 or stabili\$4) near10 (paste or polymer)) with ((water or H2O or H2 O or (H\$1sub \$1"2" O) or (H\$1sub \$1"2" O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or non carbonic acid ester or polyalcohol)) with (medium or solution)	USPAT; USOCR			01:34
S83	20	((harden\$4) near10 (paste or polymer)) with ((water or H2O or H2 O or (H\$1sub \$1"2"O) or (H\$1sub \$1"2" O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or hydroxilic) acid) near6 (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol))	US-PGPUB; USPAT; USOCR	, mADJ	ON	2009/09/14

S84	616	((surface) near10 (paste or polymer)) with ((water or H2O or H2 O or (H\$1sub \$1"2"O) or (H\$1sub \$1"2" O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or hydroxilic) acid) near6 (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/14
S85	27	((surface) near7 (paste or polymer)) with ((water or H2O or H2 O or (H\$1sub \$1"2"O) or (H\$1sub \$1"2" O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or hydroxic or hydroxic or hydroxic or hydroxic or hydroxilic) acid) near6 (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/14
S86	4	((surface) near7 (paste or polymer)) with ((water or H2O or H2 O or (H\$1sub \$1"2"O) or (H\$1sub \$1"2" O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or hydroxilic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/14

	таттаттинаттинаттинаттинаттина 	acid) near6 (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol)) and (conduct\$3) and ("438".clas. or "257". clas. or "29".clas.)			нинининининининининининининининининини	
S88	245	((surface) near7 (paste or polymer)) with ((water or H2O or H2 O or (H\$1sub \$1"2"O) or (H\$1sub \$1"2" O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or hydroxilic) acid) near6 (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol)) and (conduct\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON.	2009/09/14 01:55
989		((surface) near7 (paste or polymer)) with (drie\$1 or dry\$3) with ((water or H2O or H2 O or (H\$1sub \$1"2"O) or (H\$1sub \$1"2" O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or hydroxilic) acid) near6 (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol)) and (conduct\$3)	US-PGPUB; USPAT; USOCR	#ADJ	0 0	2009/09/14

S90	21	((surface) near7 (paste or polymer)) with (drie\$1 or dry\$3 or harden\$4 or solidif \$4) with ((water or H2O or H2 O or (H \$1sub\$1"2"O) or (H \$1sub\$1"2"O) or aqua or dihydrogen monoxide or DHMO or hydrogen hydroxide or oxidane or hydrate or hydrogen oxide or (hydric or hydroxic or hydroxic or hydroxilic) acid) near6 (surfactant or soap or alchol sulfate or alkyl benzene or sulfonate or non carbonic acid ester or polyalcohol)) and (conduct\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON CONTRACTOR OF THE PROPERTY	2009/09/14
S91	7	("5399184"   "5958616"   "6020083"   "6297564").PN. OR ("6485855").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/14 02:10

## **EAST Search History (Interference)**

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